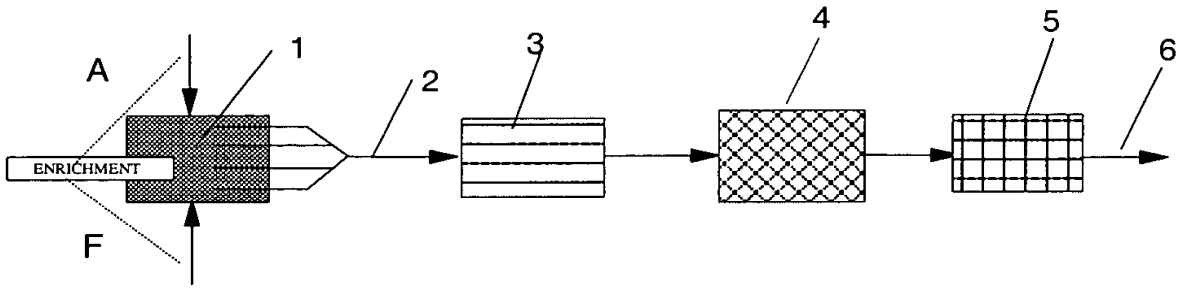

Fig 1

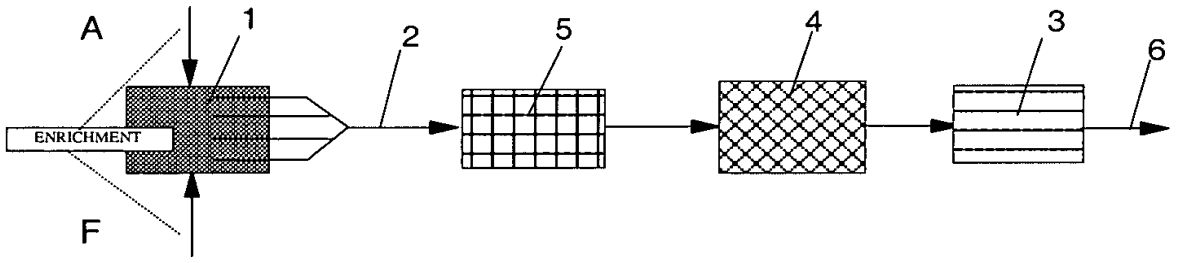

Fig 2

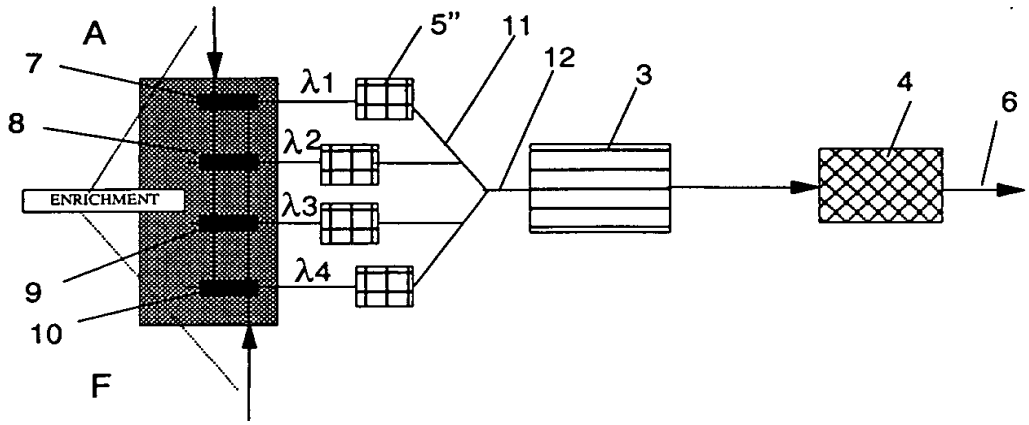
A
7
8
ENRICHMENT
9
10
F
λ1
λ2
λ3
λ4
5"
11
12
3
4
6

Fig 3

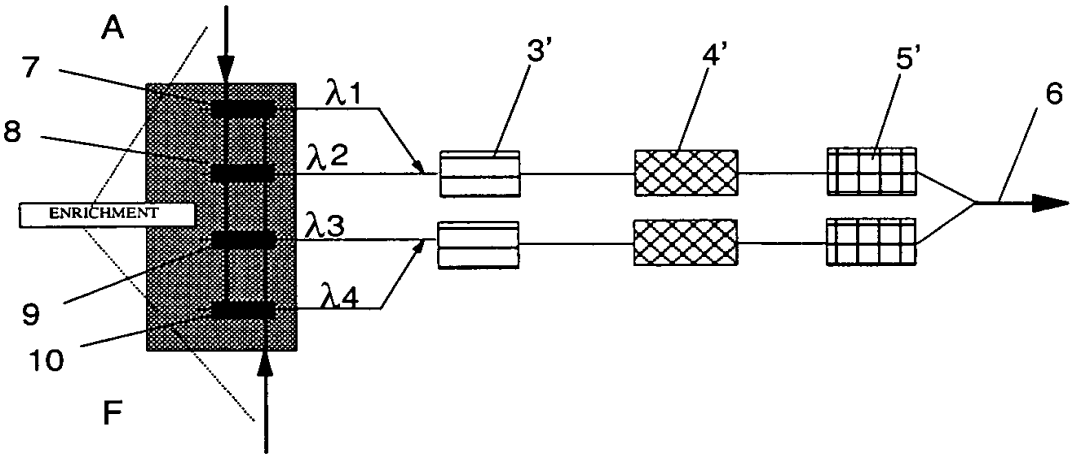
A
7
8
ENRICHMENT
9
10
F
λ1
λ2
λ3
λ4
3'
4'
5'
6

Fig 4

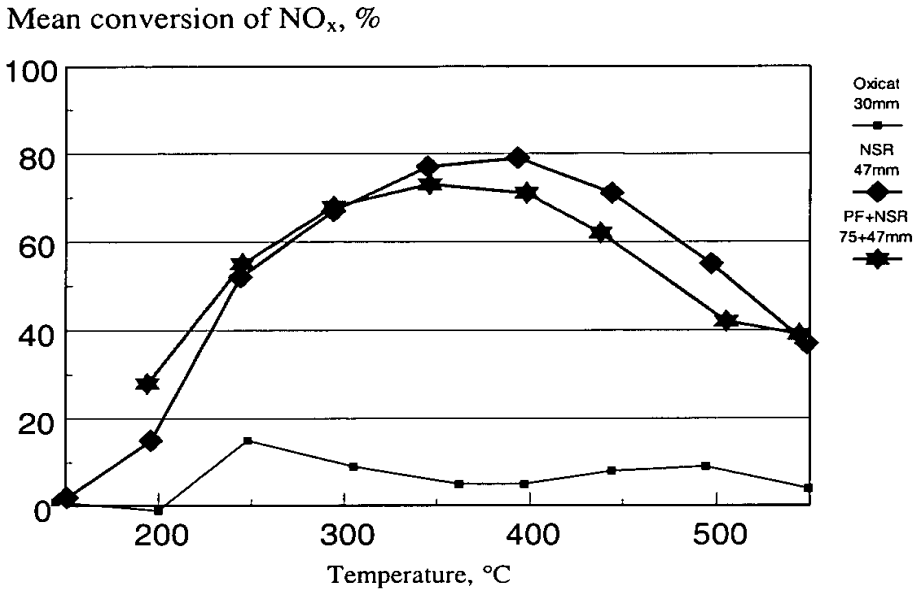
Mean conversion of NO_x, %
100
80
60
40
20
0
200
300
400
500
Temperature, °C
Oxicat 30mm
NSR 47mm
PF+NSR 75+47mm

Fig 5

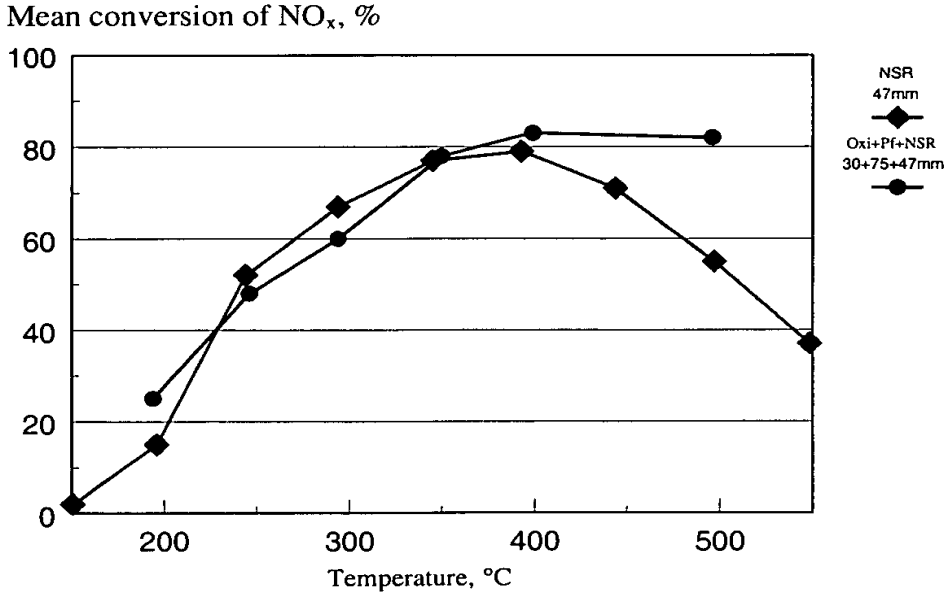
Mean conversion of NO_x, %
100
80
60
40
20
0
200
300
400
500
Temperature, °C
NSR 47mm
Oxi+Pf+NSR 30+75+47mm

Fig 6

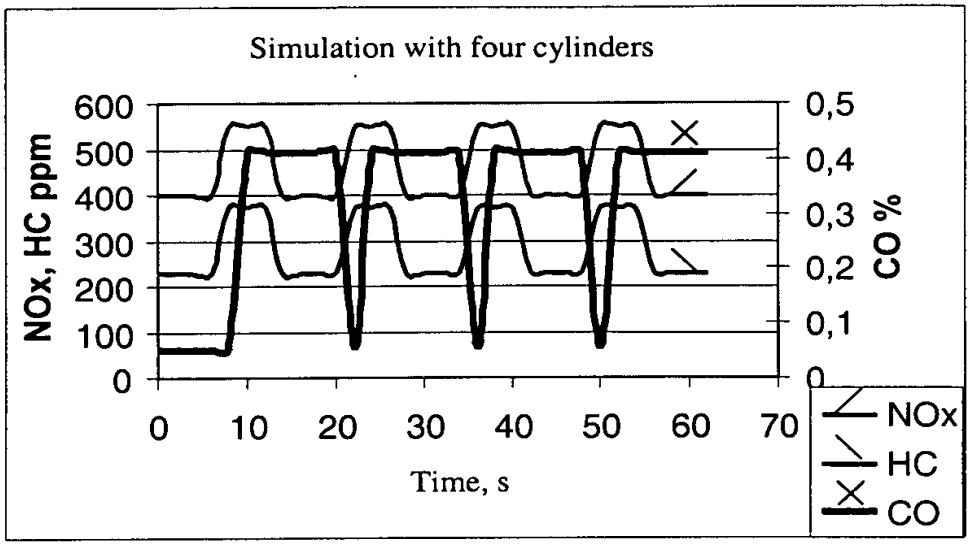
Simulation with four cylinders
NOx, HC ppm
600
500
400
300
200
100
0
0,5
0,4
0,3
0,2
0,1
0
CO %
0
10
20
30
40
50
60
70
Time, s
NOx
HC
CO

Fig 7

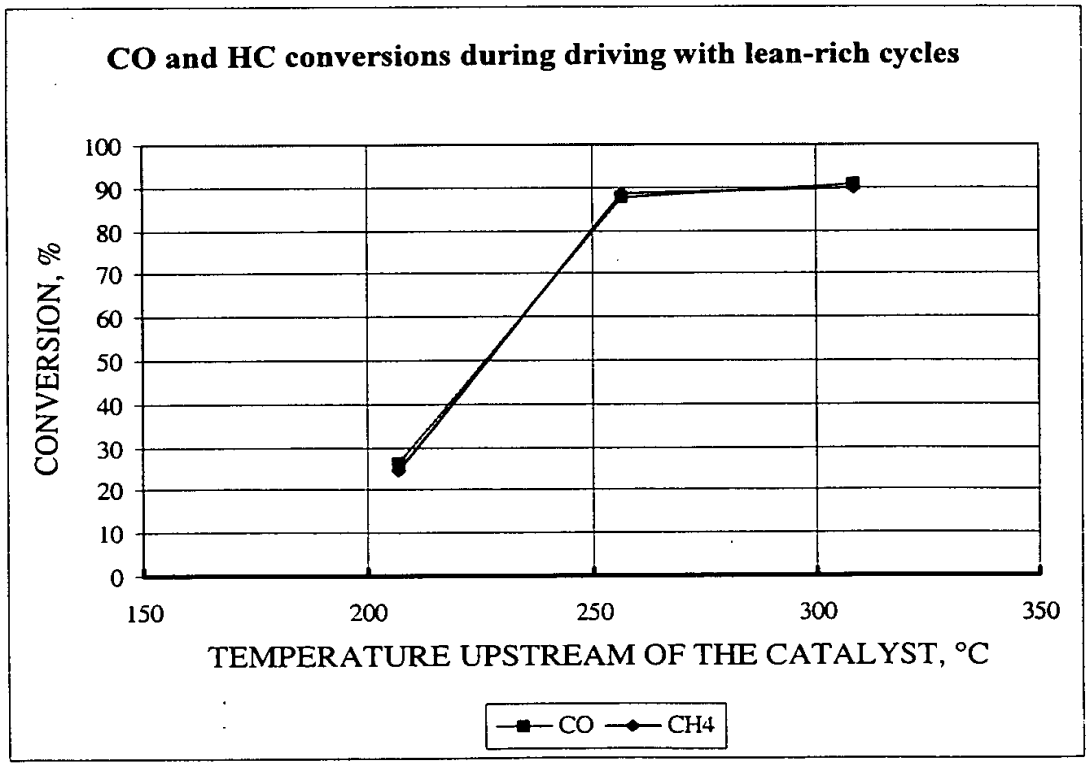
CO and HC conversions during driving with lean-rich cycles
CONVERSION, %
100
90
80
70
60
50
40
30
20
10
0
150
200
250
300
350
TEMPERATURE UPSTREAM OF THE CATALYST, °C
CO
CH4

Fig 8

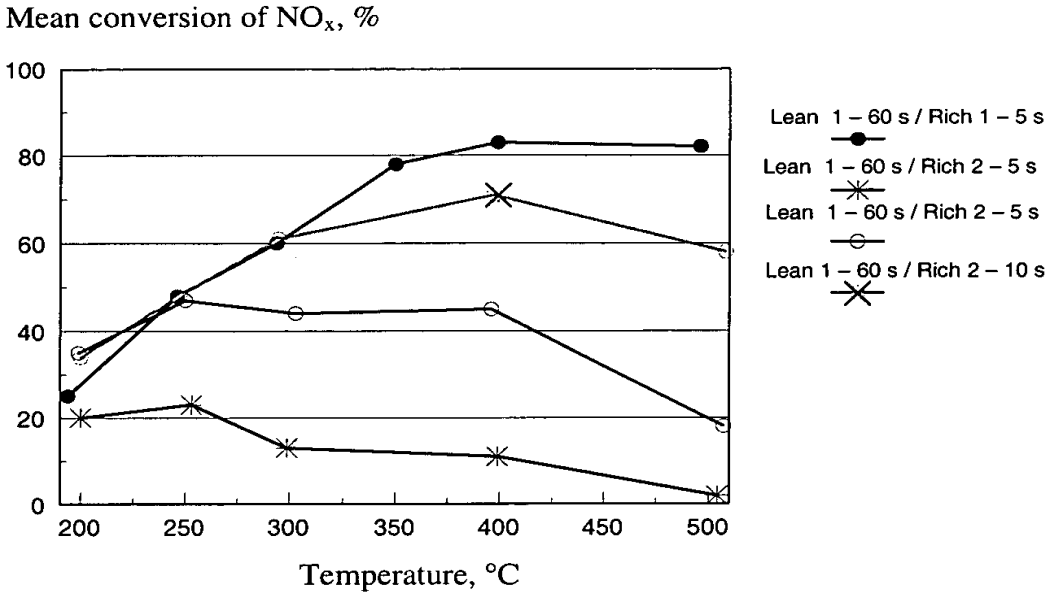
Mean conversion of NO_x, %
100
80
60
40
20
0
200
250
300
350
400
450
500
Temperature, °C
Lean 1 – 60 s / Rich 1 – 5 s
Lean 1 – 60 s / Rich 2 – 5 s
Lean 1 – 60 s / Rich 2 – 5 s
Lean 1 – 60 s / Rich 2 – 10 s

Fig 9